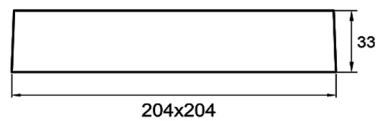


## Product Datasheet



Products Family : Led Lighting Fixture  
Products Name : LED Panel Light

### Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BP04-61800	3000K	White
BP04-61810	4000K	White
BP04-61830	6500K	White

Manufacturer:  
Demgrup international lighting limited  
unit d 16/f,one capital place,18 luard road  
wan chai, Hong Kong  
[www.demgrup.com.tr](http://www.demgrup.com.tr)

Importer / Company:  
Braytron S.R.L  
Bulevardul iuliu maniu,nr.616, corp B  
etaj 1 sector 6,061129 bucuresti, Romania  
[info@braytron.com](mailto:info@braytron.com) [www.braytron.com](http://www.braytron.com)

**Test condition:light for 30 mins under nominal voltage input and 25°C±1°working environment**

## General Characteristics

- Family : Led Lighting Fixture
- Sub Family : LED Panel Light
- Mounting Type : Surface Mounting
- Lamp Shape : Non-Directional
- Dimmable : Not-Dimmable
- Light Source : LED
- Warranty : 2 years
- Class : Class II
- IP : IP40

## Lamp Characteristics

- Wattage : 18 w
- Color Temperatue : 3000K/4000K/6500K
- Luminous Flux(whole Product) : 1760 lm
- Luminous Flux(LED System) : 1760 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 120 Degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

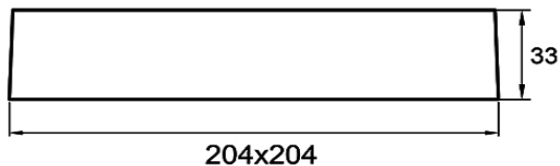
- Lifetime(L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : > 0.5
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Plastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment humidity(working) : 10%~65%

Test condition:light for 30 mins under nominal voltage input and 25°C±1°working environment

## Lamp Dimensions & Weight

- Diameter(mm) :
- Length(mm) : 204
- Width(mm) : 204
- Height(mm) : 33
- Cutout(mm) :
- Weight(gr) : 380

## Technical Drawing(s)



## Reliability requirements and Test Conditions

- **Lumen maintenance**  
Lumen maintenance is not lower than 89.9% after lighting for 2.5h on and 0.5h off for one cycle.  
Total 1200 cycle and 3600h including 3000h on and 600h off.
- **Working life (L70B50)**  
Under nominal voltage input, working life is forced not lower than 20000 h at 25°C±1°C

- **Remarks:**

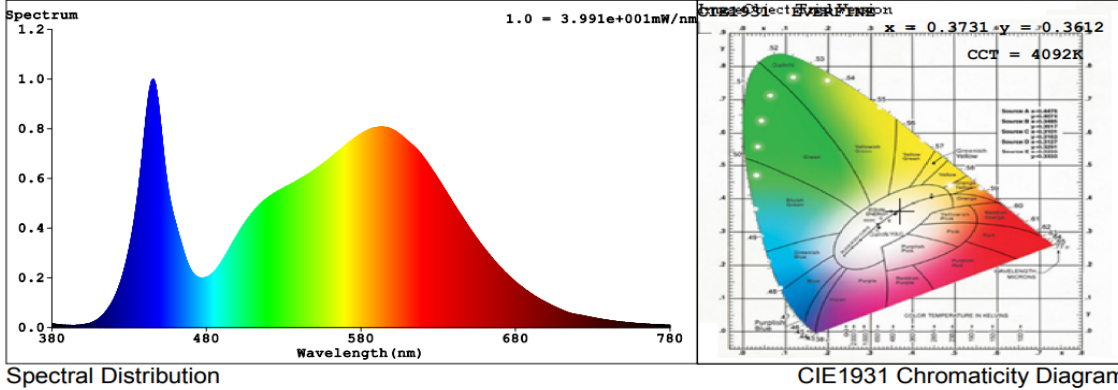
Declared values above may vary ±5



*Luminare is intendet to use in outdoor aplications*

Test condition: light for 30 mins under nominal voltage input and 25°C±1° working environment

## Optical and electrical test parameter:



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3731$   $y = 0.3612$  /  $u' = 0.2265$   $v' = 0.4934$  ( $duv = -5.26e-03$ )

CCT= 4092K Prcp WL:  $\lambda_d = 582.5\text{nm}$  Purity=20.4%

Peak WL:  $\lambda_p = 446\text{nm}$  FWHM: =22.2nm Ratio: R=18.3% G=78.3% B=3.4%

Render Index:  $R_a = 82.3$

R1 =82 R2 =87 R3 =92 R4 =83 R5 =82 R6 =83 R7 =84

R8 =66 R9 =10 R10=70 R11=82 R12=68 R13=83 R14=95 R15=77

### Photometric & Radiometric Parameters

Flux = 1832.0 lm Eff. : 98.17 lm/W  $F_e = 5.7307\text{ W}$

### Electrical parameters

V = 230.2 V I = 0.1376 A P = 18.66 W PF = 0.5894 F=49.99 Hz

## Darkroom Test report

